

MIRAMON

Institutional projects from a private sector perspective

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Introduction to Altamira Information

ALTAMIRA INFORMATION is an experienced EO company that provides ground deformation measurements with millimetric precision and mapping solutions using satellite images.

- ALTAMIRA was founded in Barcelona in 1999 and opened offices in Toulouse (France) and Calgary (Canada) – part of the CLS group since 2010
- The team brings together more than 35 staff with wide InSAR technical and scientific background.
- ALTAMIRA services are provided using its own PSInSAR software: the Stable Point Network processing chain (SPN).

 Main clients in the domain of infrastructures, mining and Oil and Gas



- Institutional and Cooperation projects:
 - Support for Natural Hazards in New Orleans Katrina's Hurricane (CSA, USGS, NASA)
 - Support for Climate Change studies in Alexandria 2009-2010 (World Bank)





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Our branches & worldwide presence



Altamira Information brings together a team of engineering experts in InSAR technology. With headquarters based in Barcelona (Spain) and 12 branches worldwide we are currently expanding with agents into new areas.

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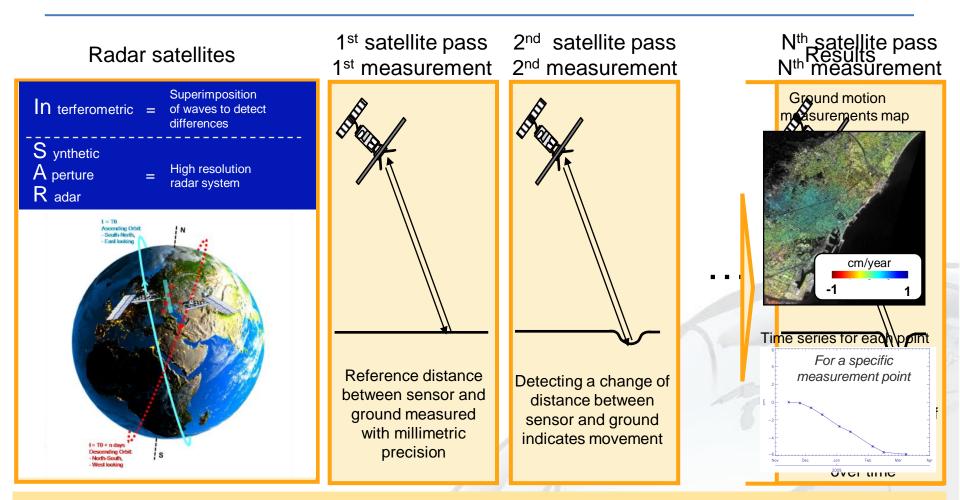
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GEOVIQUA



The proposed service – Ground motion measurement



Ground movement is measured with radar satellites, comparing the distance between the sensor and the ground surface at different moments in time.

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GEOVIQUE



Main Application Sectors

Infrastructures







- Infrastructures (railway, ports, tunnel, metro, bridges..) monitoring
- Planning, construction









- Open pit mines and slopes
- Underground mines
- Infrastructures (dump areas, tailing dams...)

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GEOVIQUE









- Reservoirs and pipelines monitoring
- Unconventional gas storage
- LNG terminals...

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Institutional











- Natural Hazards mitigation
- Safety improvement
- Hazard information services (floods, climate changes...)

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WORLD BANK





Institutional and Cooperation projects

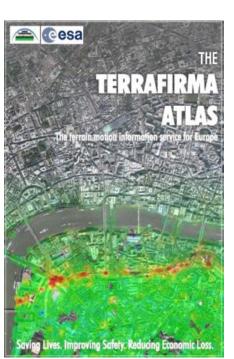
Organised following 3 main domains of applications:



A Success Story...

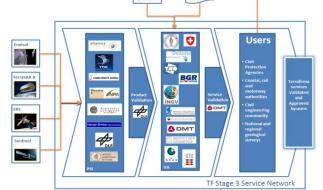


Terrafirma is one of the services supported by the European Space Agency's (ESA) Global Monitoring for Environment and Security (GMES) Service Element Programme



esa

- Terrafirma provides a ground motion hazard information service, distributed throughout Europe via national geological surveys and institutions.
- The objective of this service is to help
 - Identify hazards
 - Improve safety,
 - Mitigate risk





ALTAMIRA INFORMATION has been appointed by ESA as <u>leader of the Terrafirma project:</u> bringing together a consortium of 20 European experts in Earth Observation, Geological Surveys, and specialists in landslides, hydrogeology, tectonics and flooding.

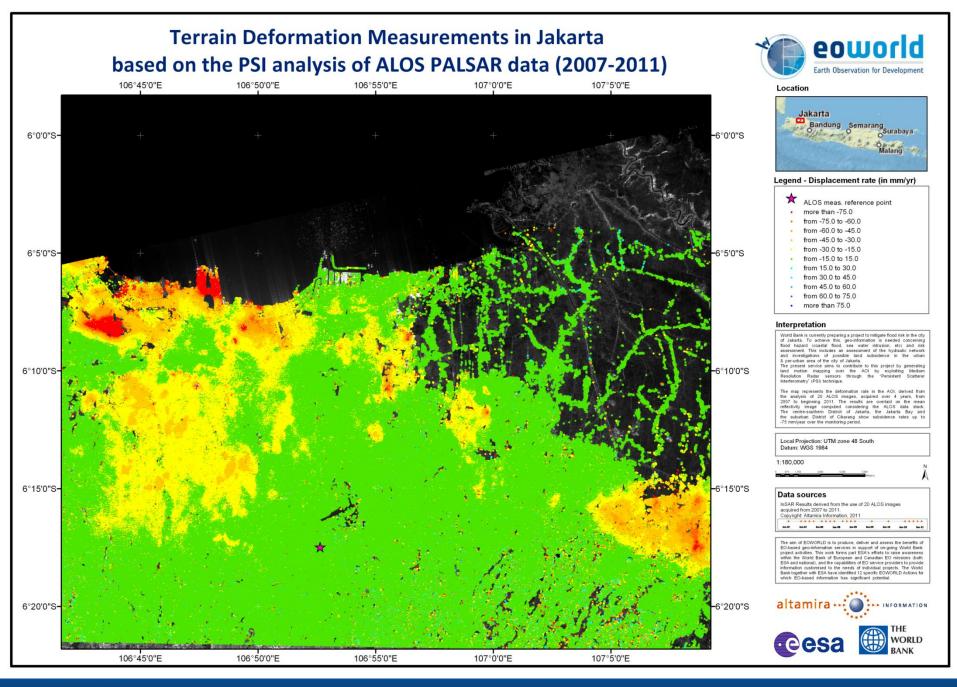






- EOWorld project aims at demonstrate the utility of the EO-based services within World Bank projects.
- Altamira has led 3 of the 12 pilot projects defined within the partnership.
- Main theme is the Urban Risk Management with subsidence problems in coastal lowland areas prone to flooding and flood defence systems.

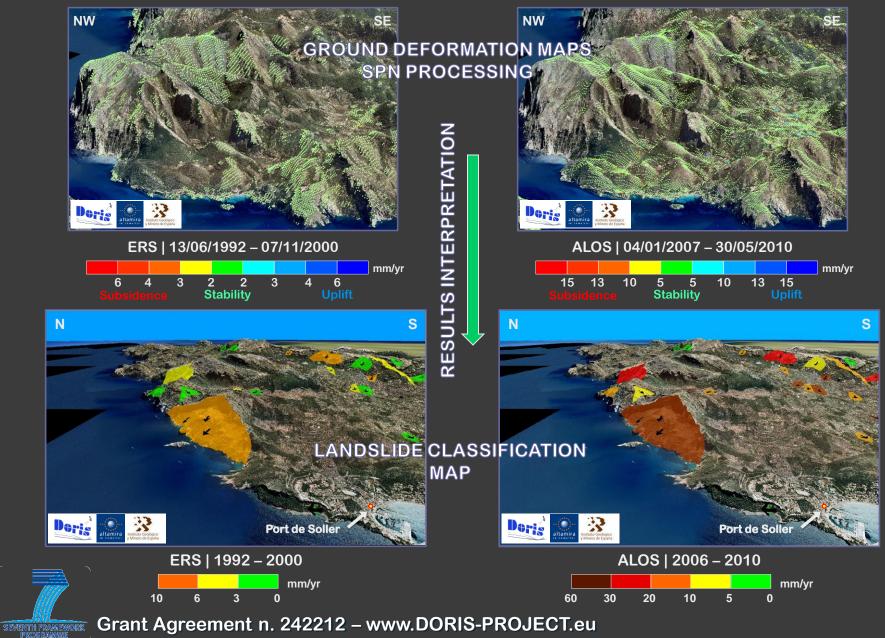
Region of interest	Project Title
Latin America Caribbean	Building Flood Defence Systems in Guyana
East Asia Pacific	Multi-Hazard Vulnerability Assessment in Ho Chi Minh City and Yogyakarta
East Asia Pacific	Analysis of Land Subsidence of Jakarta



eoworld



LANDSLIDES IN MALLORCA





MyOcean project

- Pan-European project for an operational marine service, a joint effort of more than 60 partners
- The MyOcean catalogue counts with more than 100 oceanographic products that include in-situ, modelling, and earth observation data sources.
- Today, it serves over 2000 users with an average of 52000 download requests per month
- On April 23rd, MyOcean V3 will be released.



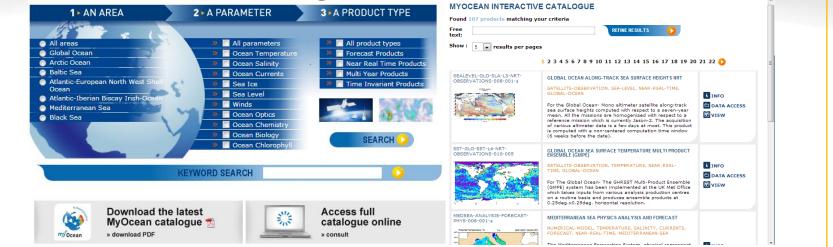
- Altamira contributes to:

 - WP2.3 ⇒ Service Engineering: design of human processes, service integration and verification

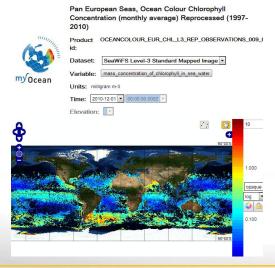
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Conclusion

- From a strategic commercial perspective, FP7 funds shall not represent a mere source of income but a key contribution in terms of:
 - Trans-national research cooperation
 - Achievement of scientific excellence as a backbone for technological development
 - Addressing of research towards future market demand
- Institutional projects commonly fluctuate between 5 and 10% of Altamira's yearly revenue



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- In return, as a representative of commercial markets, we shall:
 - strongly contribute to the transfer of industrial needs among multidisciplinary research groups
 - pitch in innovation and enhance competitiveness

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Thank you for your attention

Javier Duro Head of Research and Development

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